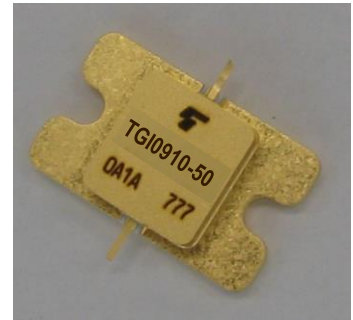


**FEATURES**

- BROAD BAND INTERNALLY MATCHED HEMT
- HIGH POWER  
Pout= 47.0dBm at Pin= 41.0dBm
- HIGH GAIN  
GL= 9.0dB at 9.5GHz to 10.5GHz
- HERMETICALLY SEALED PACKAGE



**RF PERFORMANCE SPECIFICATIONS ( Ta= 25°C )**

CHARACTERISTICS	SYMBOL	CONDITIONS	UNIT	MIN.	TYP.	MAX.
Output Power	Pout	VDS= 24V IDSset= 1.5A f= 9.5 to 10.5 GHz @Pin= 41.0dBm	dBm	46.0	47.0	—
Drain Current	IDS		A	—	5.0	6.0
Power Added Efficiency	$\eta_{add}$		%	—	31	—
Linear Gain	GL	@Pin= 20dBm	dB	7.0	9.0	—
Channel Temperature Rise	$\Delta T_{ch}$	(VDS X IDS + Pin – Pout) X Rth(c-c)	°C	—	130	150

**Recommended Gate Resistance(Rg): 13.3  $\Omega$**

**ELECTRICAL CHARACTERISTICS ( Ta= 25°C )**

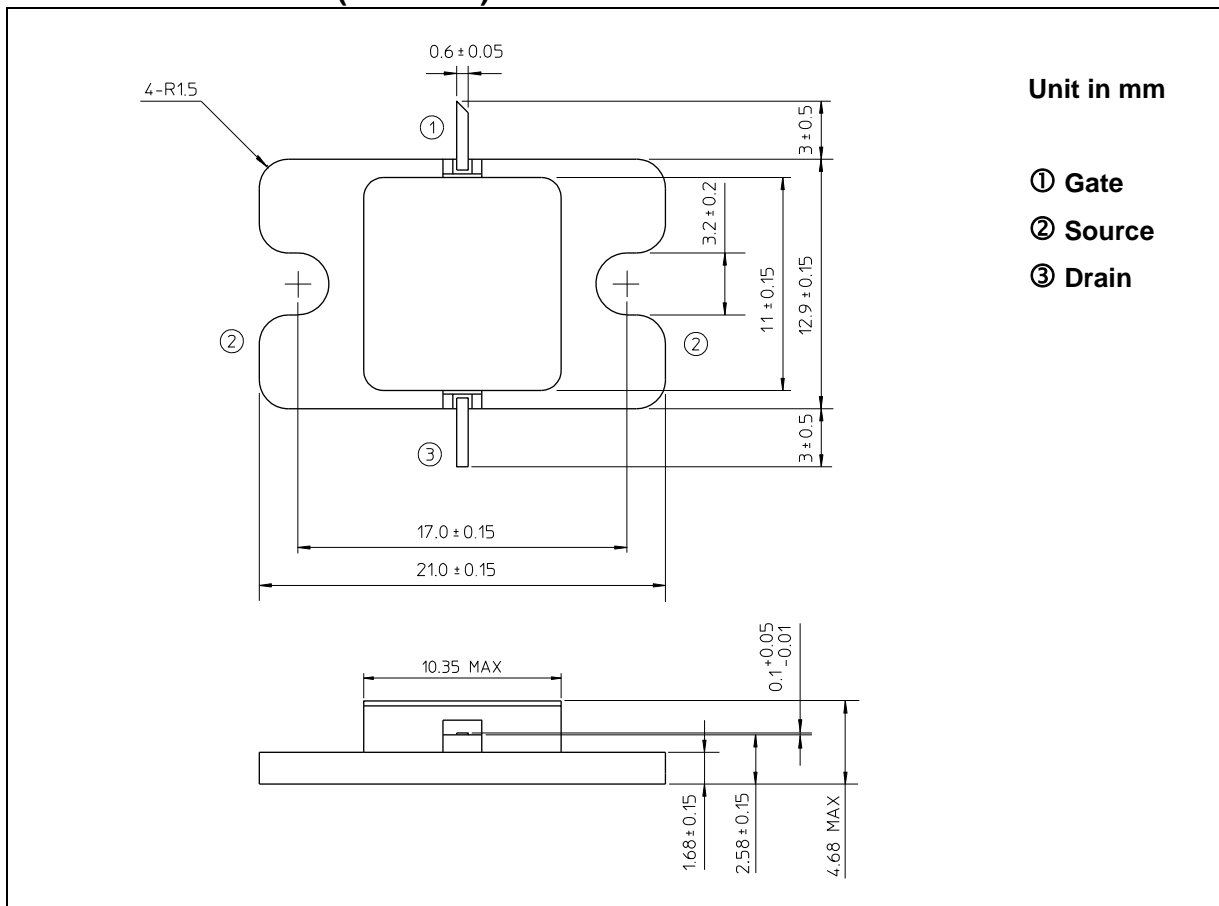
CHARACTERISTICS	SYMBOL	CONDITIONS	UNIT	MIN.	TYP.	MAX.
Transconductance	gm	VDS= 5V IDS= 5.0A	S	—	4.5	—
Pinch-off Voltage	VGSoff	VDS= 5V IDS= 23mA	V	-1.0	-4.0	-6.0
Saturated Drain Current	IDSS	VDS= 5V VGS= 0V	A	—	18	—
Gate-Source Breakdown Voltage	VGSO	IGS= -10mA	V	-10	—	—
Thermal Resistance	Rth(c-c)	Channel to Case	°C/W	—	1.4	1.6

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**ABSOLUTE MAXIMUM RATINGS (Ta= 25°C)**

CHARACTERISTICS	SYMBOL	UNIT	RATING
Drain-Source Voltage	VDS	V	50
Gate-Source Voltage	VGS	V	-10
Drain Current	IDS	A	15.0
Total Power Dissipation (Tc= 25°C)	PT	W	140
Channel Temperature	Tch	°C	250
Storage Temperature	Tstg	°C	-65 to +175

**PACKAGE OUTLINE (7-AA04A)**



**HANDLING PRECAUTIONS FOR PACKAGE MODEL**

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260°C or 3 seconds at 350°C.